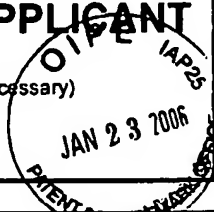


|  |  |                      |                      |
|--|--|----------------------|----------------------|
| Substitute for form 1449A/PTO (modified)   |  | Application Number   | 10/748010            |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 1 of 1 |  | Filing Date          | December 30, 2003    |
|  |  | First Named Inventor | Noelle, Randolph J.  |
|  |  | Art Unit             | <del>1653</del> 1646 |
|  |  | Examiner Name        | Unknown              |
|  |  | Attorney Case Number | 58281US004           |



| U.S. Patent Documents |          |                                  |  |   |   |
|-----------------------|----------|----------------------------------|--|---|---|
| Exam. Init.*          | Cite No. | Document Number                  | Publication Date or Issue Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |          | Doc. Number-(Kind Code if Known) |  |   |   |
|                       | A1       | US-                              |  |   |   |
|                       | A2       | US-                              |  |   |   |
|                       | A3       | US-                              |  |   |   |
|                       | A4       | US-                              |  |   |   |
|                       | A5       | US-                              |  |   |   |
|                       | A6       | US-                              |  |   |   |
|                       | A7       | US-                              |  |   |   |
|                       | A8       | US-                              |  |   |   |

| Foreign Patent Documents |          |                         |                            |                                |   |   |
|--------------------------|----------|-------------------------|----------------------------|--------------------------------|---|---|
| Exam. Init.*             | Cite No. | Foreign Patent Document |                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                          |          | Ctry. Code              | Number-KindCode (If known) |                                |   |   |
|                          | B1       |                         |                            |                                |   |   |
|                          | B2       |                         |                            |                                |   |   |
|                          | B3       |                         |                            |                                |   |   |
|                          | B4       |                         |                            |                                |   |   |
|                          | B5       |                         |                            |                                |   |   |
|                          | B6       |                         |                            |                                |   |   |
|                          | B7       |                         |                            |                                |   |   |

| OTHER DOCUMENTS |          |  |                            |
|-----------------|----------|--|----------------------------|
| Exam. Init.*    | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | Translation (Check if yes) |
| CK              | C1       | Gorden et al., "Synthetic TLR Agonists Reveal Functional Differences between Human TLR7 and TLR8", <u>The Journal of Immunology</u> , 2005, Vol. 174, pgs. 1259-1268.  |                            |
| CK              | C2       | Sauder et al., "Randomized, Single-Blind, Placebo-Controlled Study of Topical Application of the Immune Response Modulator Resiquimod in Healthy Adults", <u>Antimicrobial Agents and Chemotherapy</u> , December 2003, Vol. 47, No. 12, pgs. 3846-3852.       |                            |
|                 | C3       |  |                            |

|  |                             |
|--|-----------------------------|
| *Examiner: /Claire Kaufman/  | Date Considered: 09/11/2006 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                             |

Information Disclosure Statement)

Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Use as many sheets as necessary)

Page 1 of 1

|                      |                     |
|----------------------|---------------------|
| Application Number   | 10/748010           |
| Filing Date          | December 30, 2003   |
| First Named Inventor | Noelle, Randolph J. |
| Art Unit             | 1653 1646           |
| Examiner Name        | Unknown             |
| Attorney Case Number | 58281US004          |

**U.S. Patent Documents**

| Exam.<br>Init.* | Cite<br>No. | Document Number                  | Publication Date or<br>Issue Date<br>MM-DD-YYYY | Name of Patentee<br>or Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------|-------------|----------------------------------|---|--|---|
|                 |             | Doc. Number-(Kind Code if Known) |   |  |   |
| CK              | A1          | US- 2003/0022302 A1              | 01-30-2003                                      | Lewis et al.                                       |   |
| CK              | A2          | US- 2004/0023870 A1              | 02-05-2004                                      | Dedera et al.                                      |   |
|                 | A3          | US-                              |   |  |   |
|                 | A4          | US-                              |   |  |   |
|                 | A5          | US-                              |   |  |   |
|                 | A6          | US-                              |   |  |   |
|                 | A7          | US-                              |   |  |   |
|                 | A8          | US-                              |   |  |   |
|                 | A9          | US-                              |   |  |   |

**Foreign Patent Documents**

| Exam.<br>Init.* | Cite<br>No. | Foreign Patent Document |                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | Translation<br>(Check if yes) |
|-----------------|-------------|-------------------------|----------------------------|--------------------------------|--|---|-------------------------------|
|                 |             | Ctry. Code              | Number-KindCode (if known) |                                |  |   |                               |
| CK              | B1          | WO                      | 03/089602                  | 10-30-2003                     | Yale Univ.   |   |                               |
|                 | B2          |                         |                            |                                |  |   |                               |
|                 | B3          |                         |                            |                                |  |   |                               |
|                 | B4          |                         |                            |                                |  |   |                               |
|                 | B5          |                         |                            |                                |  |   |                               |
|                 | B6          |                         |                            |                                |  |   |                               |
|                 | B7          |                         |                            |                                |  |   |                               |

**OTHER DOCUMENTS**

| Exam.<br>Init.* | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | Translation<br>(Check if yes) |
|-----------------|-------------|--|-------------------------------|
| CK              | C1          | Akira S. et al., "Recognition of pathogen-associated molecular patterns by TLR family", <u>Immunology Letters</u> , 2003, Vol. 85, pgs. 85-95.   |                               |
| CK              | C2          | Ozinsky A. et al., "The repertoire for pattern recognition of pathogens by the innate immune system is defined by cooperation between Toll-like receptors", <u>Proc. Nat. Acad. Sci.</u> , December 2000, Vol. 97, No. 25, pgs. 13766-13771.                   |                               |
|                 | C3          |  |                               |

\*Examiner: /Claire Kaufman/

Date Considered: 09/11/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement)

|   |                      |                      |
|---|----------------------|----------------------|
| Substitute for form 1449/PTO (modified)<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 1 of 6 | Application Number   | 10/748,010           |
|   | Filing Date          | December 30, 2003    |
|   | First Named Inventor | Randolph J. Noelle   |
|   | Art Unit             | <del>1655</del> 1646 |
|   | Examiner Name        | Unknown              |
|   | Attorney Case Number | 58281US004           |

| U.S. Patent Documents |          |                                  |  |   |   |
|-----------------------|----------|----------------------------------|--|---|---|
| Exam. Init.*          | Cite No. | Document Number                  | Publication Date or Issue Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |          | Doc. Number-(Kind Code if Known) |  |   |   |
| CK                    | A1       | US- 4,689,338                    | 08-25-1987                                   | Gerster   |   |
|                       | A2       | US- 4,698,348                    | 10-06-1987                                   | Gerster   |   |
|                       | A3       | US- 4,929,624                    | 05-29-1990                                   | Gerster et al.                                  |   |
|                       | A4       | US- 4,988,815                    | 01-29-1991                                   | Andre et al.                                    |   |
|                       | A5       | US- 5,037,986                    | 08-06-1991                                   | Gerster   |   |
|                       | A6       | US- 5,175,296                    | 12-29-1992                                   | Gerster   |   |
|                       | A7       | US- 5,238,944                    | 08-24-1993                                   | Wick et al.                                     |   |
|                       | A8       | US- 5,266,575                    | 11-30-1993                                   | Gerster et al.                                  |   |
|                       | A9       | US- 5,268,376                    | 12-07-1993                                   | Gerster   |   |
|                       | A10      | US- 5,346,905                    | 09-13-1994                                   | Gerster   |   |
|                       | A11      | US- 5,352,784                    | 10-04-1994                                   | Nikolaides et al.                               |   |
|                       | A12      | US- 5,367,076                    | 11-22-1994                                   | Gerster   |   |
|                       | A13      | US- 5,376,501                    | 12-27-1994                                   | Mariën et al.                                   |   |
|                       | A14      | US- 5,389,640                    | 02-14-1995                                   | Gerster et al.                                  |   |
|                       | A15      | US- 5,395,937                    | 03-07-1995                                   | Nikolaides et al.                               |   |
|                       | A16      | US- 5,446,153                    | 08-29-1995                                   | Lindstrom et al.                                |   |
|                       | A17      | US- 5,482,936                    | 01-09-1996                                   | Lindstrom                                       |   |
|                       | A18      | US- 5,494,916                    | 02-27-1996                                   | Lindstrom et al.                                |   |
|                       | A19      | US- 5,525,612                    | 06-11-1996                                   | Gerster   |   |
|                       | A20      | US- 5,605,899                    | 02-25-1997                                   | Gerster et al.                                  |   |
|                       | A21      | US- 5,693,811                    | 12-02-1997                                   | Lindstrom                                       |   |
|                       | A22      | US- 5,741,908                    | 04-21-1998                                   | Gerster et al.                                  |   |
|                       | A23      | US- 5,756,747                    | 05-26-1998                                   | Gerster   |   |
|                       | A24      | US- 5,939,090                    | 08-17-1999                                   | Beaurline et al.                                |   |
|                       | A25      | US- 6,028,076                    | 02-22-2000                                   | Hirota et al.                                   |   |
|                       | A26      | US- 6,039,969                    | 03-21-2000                                   | Tomai et al.                                    |   |
|                       | A27      | US- 6,069,149                    | 05-30-2000                                   | Nanba et al.                                    |   |
| CK                    | A28      | US- 6,083,505                    | 07-04-2000                                   | Miller et al.                                   |   |

|  |                  |
|--|------------------|
| *Examiner:   | Date Considered: |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                  |

|   |                             |                    |
|---|-----------------------------|--------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 2 of 6 | <b>Application Number</b>   | 10/748,010         |
|   | <b>Filing Date</b>          | December 30, 2003  |
|   | <b>First Named Inventor</b> | Randolph J. Noelle |
|   | <b>Art Unit</b>             | 4650               |
|   | <b>Examiner Name</b>        | Unknown            |
|   | <b>Attorney Case Number</b> | 58281US004         |

| U.S. Patent Documents |             |                                  |   |  |   |
|-----------------------|-------------|----------------------------------|---|--|---|
| Exam.<br>Init.*       | Cite<br>No. | Document Number                  | Publication Date or<br>Issue Date<br>MM-DD-YYYY | Name of Patentee<br>or Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |             | Doc. Number-(Kind Code if Known) |   |  |   |
| CK                    | A29         | US- 6,110,929                    | 08-29-2000                                      | Gerster et al.                                     |   |
|                       | A30         | US- 6,113,918                    | 09-05-2000                                      | Johnson et al.                                     |   |
|                       | A31         | US- 6,194,388 B1                 | 02-27-2001                                      | Krieg et al.                                       |   |
|                       | A32         | US- 6,194,425 B1                 | 02-27-2001                                      | Gerster et al.                                     |   |
|                       | A33         | US- 6,200,592 B1                 | 03-13-2001                                      | Tomai et al.                                       |   |
|                       | A34         | US- 6,207,646 B1                 | 03-27-2001                                      | Krieg et al.                                       |   |
|                       | A35         | US- 6,239,116 B1                 | 05-29-2001                                      | Krieg et al.                                       |   |
|                       | A36         | US- 6,245,776 B1                 | 06-12-2001                                      | Skwierczynski et al.                               |   |
|                       | A37         | US- 6,303,347 B1                 | 10-16-2001                                      | Johnson et al.                                     |   |
|                       | A38         | US- 6,323,200 B1                 | 11-27-2001                                      | Gerster et al.                                     |   |
|                       | A39         | US- 6,329,381 B1                 | 12-11-2001                                      | Kurimoto et al.                                    |   |
|                       | A40         | US- 6,331,539 B1                 | 12-18-2001                                      | Crooks et al.                                      |   |
|                       | A41         | US- 6,339,068 B1                 | 01-15-2002                                      | Krieg et al.                                       |   |
|                       | A42         | US- 6,376,501 B1                 | 04-23-2002                                      | Isobe et al.                                       |   |
|                       | A43         | US- 6,376,669 B1                 | 04-23-2002                                      | Rice et al.  |   |
|                       | A44         | US- 6,387,938 B1                 | 05-14-2002                                      | Mizuguchi et al.                                   |   |
|                       | A45         | US- 6,406,705 B1                 | 06-18-2002                                      | Davis et al.                                       |   |
|                       | A46         | US- 6,426,334 B1                 | 07-30-2002                                      | Agrawal et al.                                     |   |
|                       | A47         | US- 6,440,992 B1                 | 08-27-2002                                      | Gerster et al.                                     |   |
|                       | A48         | US- 6,476,000 B1                 | 11-05-2002                                      | Agrawal  |   |
|                       | A49         | US- 6,451,810 B1                 | 09-17-2002                                      | Coleman et al.                                     |   |
|                       | A50         | US- 6,514,985 B1                 | 02-04-2003                                      | Gerster et al.                                     |   |
|                       | A51         | US- 6,518,265 B1                 | 02-11-2003                                      | Kato et al.  |   |
|                       | A52         | US- 6,518,280 B2                 | 02-11-2003                                      | Gerster et al.                                     |   |
|                       | A53         | US- 6,525,028 B1                 | 02-25-2003                                      | Johnson et al.                                     |   |
|                       | A54         | US- 6,525,064 B1                 | 02-25-2003                                      | Dellaria et al.                                    |   |
| ✓                     | A55         | US- 6,541,485 B1                 | 04-01-2003                                      | Crooks et al.                                      |   |
| CK                    | A56         | US- 6,545,016 B1                 | 04-08-2003                                      | Dellaria et al.                                    |   |

|  |                         |
|--|-------------------------|
| <b>*Examiner:</b>  | <b>Date Considered:</b> |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                         |

Substitute for form 1449A/PTO (modified)

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 3 of 6

Application Number 10/748,010

Filing Date December 30, 2003

First Named Inventor Randolph J. Noelle

Art Unit 1653

Examiner Name Unknown

Attorney Case Number 58281US004

## **U.S. Patent Documents**

| Exam.<br>Init.* | Cite<br>No. | Document Number                  | Publication Date or<br>Issue Date<br>MM-DD-YYYY | Name of Patentee<br>or Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------|-------------|----------------------------------|---|--|---|
|                 |             | Doc. Number-(Kind Code if Known) |   |  |   |
| CK              | A57         | US- 6,545,017 B1                 | 04-08-2003                                      | Dellaria et al.                                    |   |
|                 | A58         | US- 6,558,951 B1                 | 05-06-2003                                      | Tomai et al.                                       |   |
|                 | A59         | US- 6,573,273 B1                 | 06-03-2003                                      | Crooks et al.                                      |   |
|                 | A60         | US- 6,649,172 B2                 | 11-18-2003                                      | Johnson  |   |
|                 | A61         | US- 6,656,938 B2                 | 12-02-2003                                      | Crooks et al.                                      |   |
|                 | A62         | US- 6,660,735 B2                 | 12-09-2003                                      | Crooks et al.                                      |   |
|                 | A63         | US- 6,660,747 B2                 | 12-09-2003                                      | Crooks et al.                                      |   |
|                 | A64         | US- 6,664,260 B2                 | 12-16-2003                                      | Charles et al.                                     |   |
|                 | A65         | US- 6,664,264 B2                 | 12-16-2003                                      | Dellaria et al.                                    |   |
|                 | A66         | US- 6,664,265 B2                 | 12-16-2003                                      | Crooks et al.                                      |   |
|                 | A67         | US- 6,667,312 B2                 | 12-23-2003                                      | Bonk et al.  |   |
|                 | A68         | US- 6,670,372 B2                 | 12-30-2003                                      | Charles et al.                                     |   |
|                 | A69         | US- 6,677,347 B2                 | 01-13-2004                                      | Crooks et al.                                      |   |
|                 | A70         | US- 6,677,348 B2                 | 01-13-2004                                      | Heppner et al.                                     |   |
|                 | A71         | US- 6,677,349 B1                 | 01-13-2004                                      | Griesgraber  |   |
|                 | A72         | US- 6,683,088 B2                 | 01-27-2004                                      | Crooks et al.                                      |   |
|                 | A73         | US- 2002/0016332 A1              | 02-07-2002                                      | Slade  |   |
|                 | A74         | US- 2002/0055517 A1              | 05-09-2002                                      | Smith  |   |
|                 | A75         | US- 2002/0058674 A1              | 05-16-2002                                      | Hedenstrom et al.                                  |   |
|                 | A76         | US- 2002/0110840 A1              | 08-15-2002                                      | Tomai et al.                                       |   |
|                 | A77         | US- 2003/0133913 A1              | 07-17-2003                                      | Tomai et al.                                       |   |
|                 | A78         | US- 2003/0139364 A1              | 07-24-2003                                      | Krieg et al.                                       |   |
|                 | A79         | US- 2003/0144283 A1              | 07-31-2003                                      | Coleman et al.                                     |   |
|                 | A80         | US- 2003/0199461 A1              | 10-23-2003                                      | Averett et al.                                     |   |
| ✓               | A81         | US- 2004/0010007 A1              | 01-15-2004                                      | Dellaria et al.                                    |   |
| CK              | A82         | US- 2004/0014779 A1              | 01-22-04  | Gorden et al.                                      |   |

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement — PTO-1449 (Modified)

|   |                             |                    |
|---|-----------------------------|--------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 4 of 6 | <b>Application Number</b>   | 10/748,010         |
|   | <b>Filing Date</b>          | December 30, 2003  |
|   | <b>First Named Inventor</b> | Randolph J. Noelle |
|   | <b>Art Unit</b>             | <del>1655</del>    |
|   | <b>Examiner Name</b>        | Unknown            |
|   | <b>Attorney Case Number</b> | 58281US004         |

| Foreign Patent Documents |             |                         |                                |                                |  |   |                               |
|--------------------------|-------------|-------------------------|--------------------------------|--------------------------------|--|---|-------------------------------|
| Exam.<br>Init.*          | Cite<br>No. | Foreign Patent Document |                                | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | Translation<br>(Check if yes) |
|                          |             | Ctry. Code              | Number-KindCode (if known)     |                                |  |   |                               |
| CK                       | B1          | EP                      | 0 394 026                      | 10-24-1990                     |  |   | X                             |
|                          | B2          | EP                      | 1 104 764 A1                   | 06-06-2001                     |  |   | X                             |
|                          | B3          | JP                      | 9-208584                       | 08-12-1997                     |  |   |                               |
|                          | B4          | JP                      | 11-80156                       | 03-26-1999                     | (translation only)                                 |   | X                             |
|                          | B5          | JP                      | 11-222432                      | 08-17-1999                     |  |   | X                             |
|                          | B6          | JP                      | 2000-247884<br>(abstract only) | 09-12-2000                     |  |   | X                             |
|                          | B7          | WO                      | 00/47719 A2                    | 08-17-2000                     |  |   | X                             |
|                          | B8          | WO                      | 00/75304 A1                    | 12-14-2000                     |  |   | X                             |
|                          | B9          | WO                      | 00/76505 A1                    | 12-21-2000                     |  |   | X                             |
|                          | B10         | WO                      | 00/76518A1                     | 12-21-2000                     |  |   | X                             |
|                          | B11         | WO                      | 01/74343 A2                    | 10-11-2001                     |  |   | X                             |
|                          | B12         | WO                      | 02/072032                      | 09-19-2002                     |  |   |                               |
|                          | B13         | WO                      | 02/36592 A1                    | 05-10-2002                     |  |   | X                             |
|                          | B14         | WO                      | 02/46188 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B15         | WO                      | 02/46189 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B16         | WO                      | 02/46190 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B17         | WO                      | 02/46191 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B18         | WO                      | 02/46192 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B19         | WO                      | 02/46193 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B20         | WO                      | 02/46194 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B21         | WO                      | 02/46749 A2                    | 06-13-2002                     |  |   | X                             |
|                          | B22         | WO                      | 02/085905 A1                   | 10-31-2002                     |  |   |                               |
|                          | B23         | WO                      | 02/102377 A1                   | 12-27-2002                     |  |   | X                             |
|                          | B24         | WO                      | 03/020889 A2                   | 03-13-2003                     |  |   | X                             |
|                          | B25         | WO                      | 03/043572 A2                   | 05-30-2003                     |  |   | X                             |
| ✓                        | B26         | WO                      | 03/045391 A1                   | 06-05-2003                     |  |   | X                             |
| CK                       | B27         | WO                      | 03/103584 A2                   | 12-18-2003                     |  |   | X                             |

|  |                         |
|--|-------------------------|
| <b>*Examiner:</b>  | <b>Date Considered:</b> |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                         |

|   |                             |                    |
|---|-----------------------------|--------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 5 of 6 | <b>Application Number</b>   | 10748,010          |
|   | <b>Filing Date</b>          | December 30, 2003  |
|   | <b>First Named Inventor</b> | Randolph J. Noelle |
|   | <b>Art Unit</b>             | <del>T653</del>    |
|   | <b>Examiner Name</b>        | Unknown            |
|   | <b>Attorney Case Number</b> | 58281US004         |

| OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)   |          |  |
|--|----------|--|
| Exam. Init.*   | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published   |
| CK   | C1       | Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.   |
|  | C2       | Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)  |
|  | C3       | Brassard et al.; "Interferon- $\alpha$ as an immunotherapeutic protein"; <u>Journal of Leukocyte Biology</u> ; Vol. 71; April 2002; pgs. 565-581   |
|  | C4       | Izumi et al.; "1H-imidazo[4,5-c]quinoline Derivatives as Novel Potent TNF- $\alpha$ Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2-and 4-Substituted 1H-imidazo[4,5-c]quinolines or 1H-imidazo[4,5-c]pyridines"; <u>Bioorganic and Medicinal Chemistry</u> , Vol. 11, pp. 2541-2550 (2003). |
|  | C5       | Hornung et al., "Quantitative Expression of Toll-Like Receptor 1-10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides <sup>1</sup> ", <u>The Journal of Immunology</u> , 2002, 168; pgs. 4531-4537.  |
|  | C6       | Hemmi et al., "Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent Signaling pathway", <u>Nature Immunology</u> , vol. 3, no. 2; February 2002; pgs. 196-200.  |
|  | C7       | Medzhitov, "Toll-Like Receptors and Innate Immunity", <u>Nature Reviews Immunology</u> , Vol. 1; November 2001, pgs. 135-145.  |
|  | C8       | Jurk et al. "Human TLR7 and TLR8 independently confer responsiveness to the antiviral compound R-848", <u>Nature Immunology</u> , June 2002, vol. 3, no. 6; pg. 1.   |
|  | C9       | Akira et al., "Toll-like receptors: critical proteins linking innate and acquired immunity", <u>Nature Immunology</u> , August 2001, vol. 2, no. 8; pgs. 675-680   |
|  | C10      | Heil et al.; "Synthetic immunostimulatory compounds activate immune cells via TLR7 and TLR8"; 33th Annual Meeting of the Deutsche Gessellschaft für Immunologie, Marburg 2002 - Abstract C.6   |
|  | C11      | Takeuchi et al.; "Discrimination of bacterial lipoproteins by Toll-like receptor 6", <u>International Immunology</u> , March, 2001, Vol. 13, No. 7, pp. 933-940.   |
|  | C12      | Maxwell et al.; "Contrasting the Roles of Costimulation and the Natural Adjuvant Lipopolysaccharide During the Induction of T Cell Immunity", <u>J. Immunol.</u> , May 2002; Vol. 168, pp. 4372-4381.  |
|  | C13      | Maxwell et al, Danger and OX40 Receptor Signaling Synergize to Enhance Memory T Cell Survival by Inhibiting Peripheral Deletion, <u>J. Immunol.</u> , Jan. 2000; Vol. 164, pp. 107-112.  |
|  | C14      | Lamprecht et al.; "Heterogeneity of CD4+ and CD8+ Memory T Cells in Localized and Generalized Wegener's Granulomatosis", <u>Arthritis Res. and Ther.</u> , 2003; Vol. 5, pp. R25-R31.  |
|  | C15      | Mackay.; "Dual Personality of Memory T cells", <u>Nature</u> , 1999; Vol. 401, pp. 659-660.  |
|  | C16      | Weninger et al.; Migratory Properties of Naïve, Effector, and Memory CD8+ T Cell, <u>J. Exp. Med.</u> , Oct. 2001; Vol. 194, No. 7, pp. 953-966.   |
| ✓  | C17      | Faint et al.; "Memory T Cells Constitute a Subset of the Human CD8+CD45RA+ Pool with Distinct Phenotypic and Migratory Characteristics", <u>J. Immunol.</u> , 2001, Vol. 167, pp. 212-220.   |
| CK   | C18      | Kedl et al.; "CD40 Stimulation Accelerates Deletion of Tumor-Specific CD8+ T Cells in the Absence of Tumor-Antigen Vaccination", <u>Proc. Nat. Acad. Sci.</u> , Sept. 2001; Vol. 98, No. 19, pp. 10811-10816.  |
| <b>*Examiner:</b>  |          | <b>Date Considered:</b>  |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |          |  |

|   |                             |                      |
|---|-----------------------------|----------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 6 of 6 | <b>Application Number</b>   | 10/748,010           |
|   | <b>Filing Date</b>          | December 30, 2003    |
|   | <b>First Named Inventor</b> | Randolph J. Noelle   |
|   | <b>Art Unit</b>             | <del>1053</del> 1646 |
|   | <b>Examiner Name</b>        | Unknown              |
|   | <b>Attorney Case Number</b> | 58281US004           |

| OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.) |          |  |
|--|----------|--|
| Exam. Init.*   | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
| CK   | C19      | Kedl et al, "T Cells Compete for Access to Antigen-Bearing Antigen-Presenting Cells", <u>J. Exp. Med.</u> , Vol. 192, No. 8, pp. 1105-1113.  |

|  |                                    |
|--|------------------------------------|
| <b>*Examiner:</b> /Claire Kaufman/   | <b>Date Considered:</b> 09/11/2006 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                                    |



|  |                      |                      |
|--|----------------------|----------------------|
| Substitute for form 1449A/PTO (modified)<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 1 of 1 | Application Number   | 10/748010            |
|  | Filing Date          | December 30, 2003    |
|  | First Named Inventor | Noelle, Randolph J.  |
|  | Art Unit             | <del>1633</del> 1646 |
|  | Examiner Name        | Unknown              |
|  | Attorney Case Number | 58281US004           |

| U.S. Patent Documents |             |                                  |  |   |  |   |
|-----------------------|-------------|----------------------------------|--|---|--|---|
| Exam.<br>Init.*       | Cite<br>No. | Document Number                  |  | Publication Date or<br>Issue Date<br>MM-DD-YYYY | Name of Patentee<br>or Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |             | Doc. Number-(Kind Code if Known) |  |   |  |   |
|                       | A1          | US- 5,708,142                    |  | 04-13-1999                                      | Goeddel et al.                                     |   |
|                       | A2          | US-                              |  |   |  |   |
|                       | A3          | US-                              |  |   |  |   |
|                       | A4          | US-                              |  |   |  |   |
|                       | A5          | US-                              |  |   |  |   |
|                       | A6          | US-                              |  |   |  |   |
|                       | A7          | US-                              |  |   |  |   |
|                       | A8          | US-                              |  |   |  |   |
|                       | A9          | US-                              |  |   |  |   |
|                       | A10         | US-                              |  |   |  |   |
|                       | A11         | US-                              |  |   |  |   |

| Foreign Patent Documents |             |                         |                             |                                |  |   |                               |
|--------------------------|-------------|-------------------------|-----------------------------|--------------------------------|--|---|-------------------------------|
| Exam.<br>Init.*          | Cite<br>No. | Foreign Patent Document |                             | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | Translation<br>(Check if yes) |
|                          |             | Ctry. Code              | Number-Kind Code (if known) |                                |  |   |                               |
|                          | B1          |                         |                             |                                |  |   |                               |
|                          | B2          |                         |                             |                                |  |   |                               |
|                          | B3          |                         |                             |                                |  |   |                               |
|                          | B4          |                         |                             |                                |  |   |                               |
|                          | B5          |                         |                             |                                |  |   |                               |
|                          | B6          |                         |                             |                                |  |   |                               |
|                          | B7          |                         |                             |                                |  |   |                               |

| OTHER DOCUMENTS |             |  |                               |
|-----------------|-------------|--|-------------------------------|
| Exam.<br>Init.* | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | Translation<br>(Check if yes) |
|                 | C1          |  |                               |
|                 | C2          |  |                               |
|                 | C3          |  |                               |

|  |                             |
|--|-----------------------------|
| *Examiner: /Claire Kaufman/  | Date Considered: 09/05/2006 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                             |

Information Disclosure Statement)

|   |                             |                     |
|---|-----------------------------|---------------------|
| <b>Substitute for form 1449A/PTO (modified)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary)<br><br>Page 1 of 1 | <b>Application Number</b>   | 10/748010           |
|   | <b>Filing Date</b>          | December 30, 2003   |
|   | <b>First Named Inventor</b> | Noelle, Randolph J. |
|   | <b>Art Unit</b>             | 1693 1646           |
|   | <b>Examiner Name</b>        | Unknown             |
|   | <b>Attorney Case Number</b> | 58281US004          |

| U.S. Patent Documents |          |                                  |   |   |   |
|-----------------------|----------|----------------------------------|---|---|---|
| Exam. Init.*          | Cite No. | Document Number                  | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |          | Doc. Number-(Kind Code if Known) |   |   |   |
| CK                    | A1       | US- 5,708,142                    | 01-13-1998                                | Goeddel et al.                                  |   |
|                       | A2       | US-                              |   |   |   |
|                       | A3       | US-                              |   |   |   |
|                       | A4       | US-                              |   |   |   |
|                       | A5       | US-                              |   |   |   |
|                       | A6       | US-                              |   |   |   |
|                       | A7       | US-                              |   |   |   |
|                       | A8       | US-                              |   |   |   |
|                       | A9       | US-                              |   |   |   |
|                       | A10      | US-                              |   |   |   |
|                       | A11      | US-                              |   |   |   |

| Foreign Patent Documents |          |                         |                             |                             |   |   |                            |
|--------------------------|----------|-------------------------|-----------------------------|-----------------------------|---|---|----------------------------|
| Exam. Init.*             | Cite No. | Foreign Patent Document |                             | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Translation (check if yes) |
|                          |          | Ctry. Code              | Number-Kind Code (if known) |                             |   |   |                            |
|                          | B1       |                         |                             |                             |   |   |                            |
|                          | B2       |                         |                             |                             |   |   |                            |
|                          | B3       |                         |                             |                             |   |   |                            |
|                          | B4       |                         |                             |                             |   |   |                            |
|                          | B5       |                         |                             |                             |   |   |                            |
|                          | B6       |                         |                             |                             |   |   |                            |
|                          | B7       |                         |                             |                             |   |   |                            |

| OTHER DOCUMENTS |          |  |  |                            |
|-----------------|----------|--|--|----------------------------|
| Exam. Init.*    | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |  | Translation (Check if yes) |
|                 | C1       |  |  |                            |
|                 | C2       |  |  |                            |
|                 | C3       |  |  |                            |

\*Examiner: /Claire Kaufman/

Date Considered:

09/05/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.